

Abstract

A multi-directional pump is disclosed generally comprising a housing with inlet and outlet ports, a pumping device disposed therein, a first chamber in fluid communication with the inlet port, and a second chamber in fluid communication with the first chamber. The first and second chambers are both in direct fluid communication with the outlet port, such that a double pumping effect is achieved while some of the fluid is compressed in multiple stages. In certain embodiments, one or more sealing mechanisms can be activated when particular conditions are desired in order to seal the first conduit by which the first and second fluid chambers communicate, or by which the second fluid chamber communicates with the inlet port, such that a standard double or single pumping effect is achieved.